

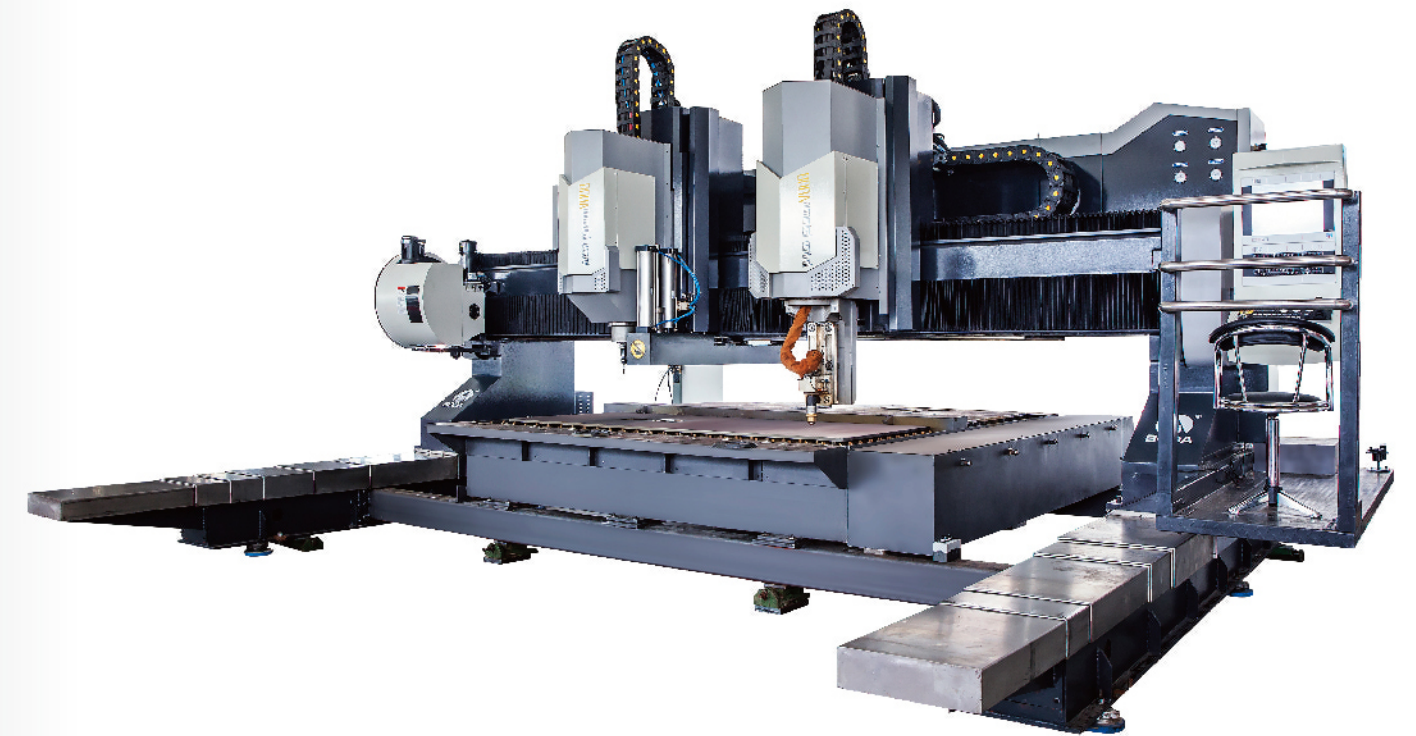


SPECIAL CUTTING

HIGH SPEED | HIGH QUALITY | HIGH EFFICIENCY

专机系列

SPECIAL MACHINE SERIES



江苏博大数控成套设备有限公司
JIANGSU BODA NC COMPLETE EQUIPMENT CO.,LTD.

江苏省江阴市璜土镇石庄新颜东路7号
N0.7 Xinyan East Road, Shizhuang District, Huangtu Town, Jiangyin, Jiangsu, China

电话Tel: +86-510-8665 9111 | 传真Fax: +86-510-8605 8600 | Email: boda@bodacnc.com

24小时售后服务热线 24-hour service hotline 139 06110371 / 138 0150 2230 www.bodacnc.com



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BODA IV series

CNC Compound Drilling Milling Tapping & Cutting(bevel) Machine 数控钻铣切复合机床

SPECIAL CUTTING



机床龙门架采用重负载结构，整体结构合理、工业化外观设计、精度更高。

Machine gantry adopts the heavy load structure, reasonable overall structure, industrial appearance design, higher precision.



数控多轴运动控制，采用therCAT总线通讯，NC与LC、ERVO间，响应更快，精度更高。

CNC multi-axis motion control, EtherCAT bus communication, communicated speed between CNC and PLC, Servo reached 100m/s, faster responding, higher precision



横梁上标配安装两组移动小车，一组安装等离子回转、偏摆体，另一组安装钻削机构。两组小车可独立横向移动。

Two moving station as standard configuration on crossbeam one for plasma rotary bevel cutting torch, the other for drilling structure, which can move independently.



机床可选配24把圆盘式刀库，自动换刀，各种刀具工艺参数界面化设置，自动高效完成钻孔工序。

24 pcs disc type tool changer as optional choice, changing the tool automatically, interface to setting all kinds of tool technical parameter, finishing the drilling process automatically and efficiently.



割炬初始定位采用接触电阻式方法，防碰撞装置采用了滑动结构，可靠性高，稳定性好。配套精细等离子电源，切割质量好，光洁度高，可切割碳钢、不锈钢等有色金属。

Cutting torch initial positioning adopts contact resistance method: Anti-impact device adopts sliding structure, high reliability, good stability. It matched with precision plasma source, good cutting quality and good finish, which can cut carbon steel, stainless steel and other nonferrous metals.

产品概述 | DESCRIPTION

数控钻铣切复合机床是我公司最新自主研发的具有国际水平的高精度、高效率的复合加工装备，用户只要一次装夹，就可以完成板材的铣、划线、钻孔、倒角、攻丝、坡口切割等多道工序。整机的设计、制造、安装、调试完全在ISO9001质量监控程序下完成。

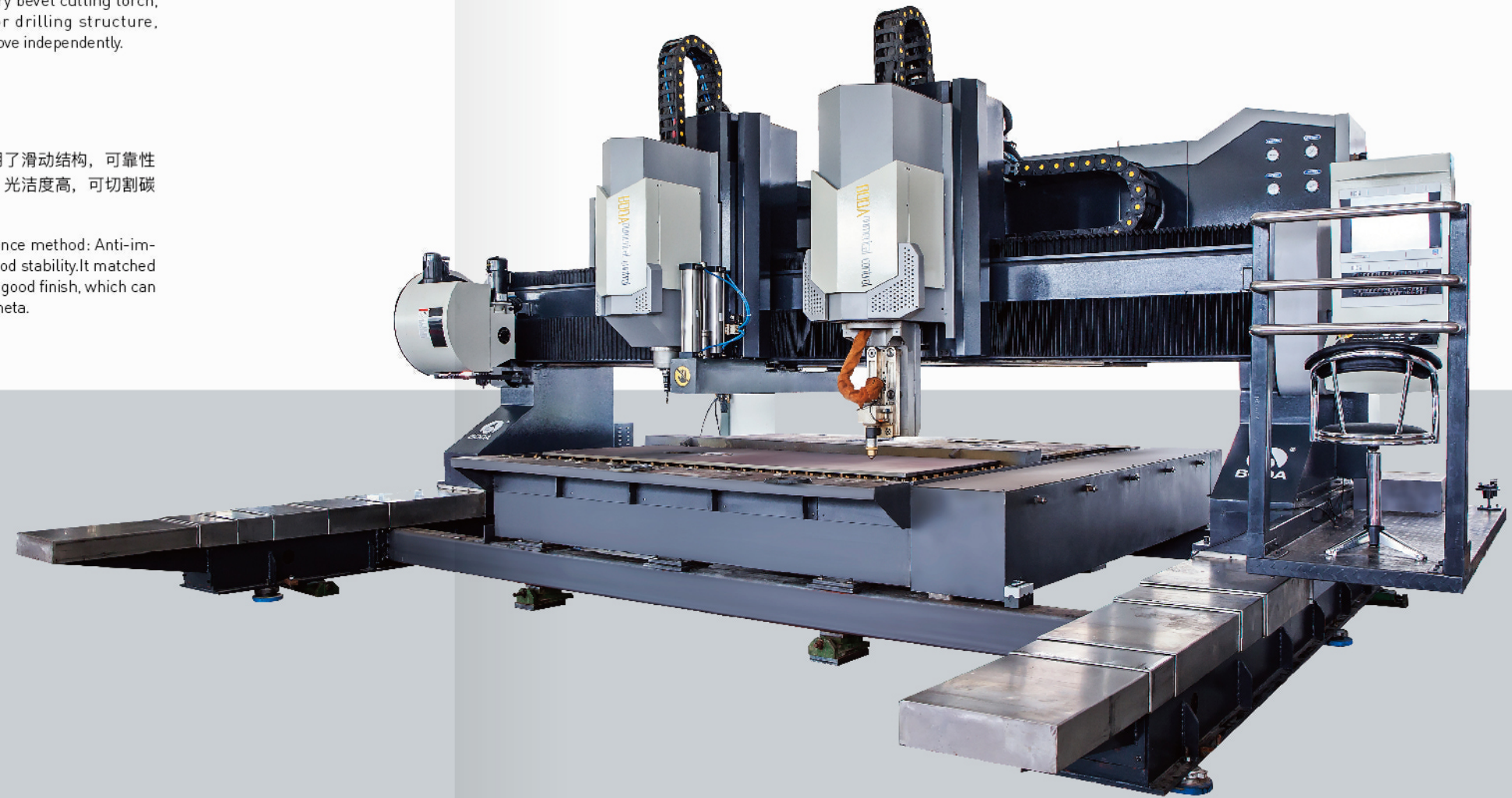
CNC Compound Drilling Milling Tapping & Cutting (bevel) Machine is self-developed high precision, high efficiency compound processing equipment with international level. A number of processing procedures such as milling, marking drilling, chamfering, tapping, bevel cutting can be finished by clamping one time. Whole machine design, manufacturer, installation testing are finished totally under ISO9001 quality control system.



高精度
HIGH PRECISION

高质量
HIGH QUALITY

高效率
HIGH EFFICIENCY



BODA IV series

High Performance CNC Plasma Bevel Cutting Machine 高性能数控等离子坡口切割机



割炬摆动结构采用新型材料，运用专利设计，轻巧耐用，角度调节速度快。

Cutting torch swinging structure using new materials, patented design, compact and durable design and efficient angle adjusting.



割炬旋转结构采用组合轴承结构，高负载下回转精度高、轴端摆动小，割炬转动定位准。

Cutting torch rotary structure adopts combined bearing structure, which performs high precision, small axis rotation swinging and accurate cutting torch rotary positioning in high loaded.



数控多轴运动控制，通过割炬的复合运动，可完成复合坡口切割。

CNC multi-axis motion control, the cutting torch's compound movement can complete compound bevel cutting.



机床龙门架采用重负载结构，制矩回转结构采用轻负载结构，机床整体结构动态特性精度高，切割平稳光洁度好。

Modular design cross beam adopts heavy loaded structure, rotary cutting torch adopts light loaded structure, the dynamic of whole machine structure was in high precision, stable and smooth.



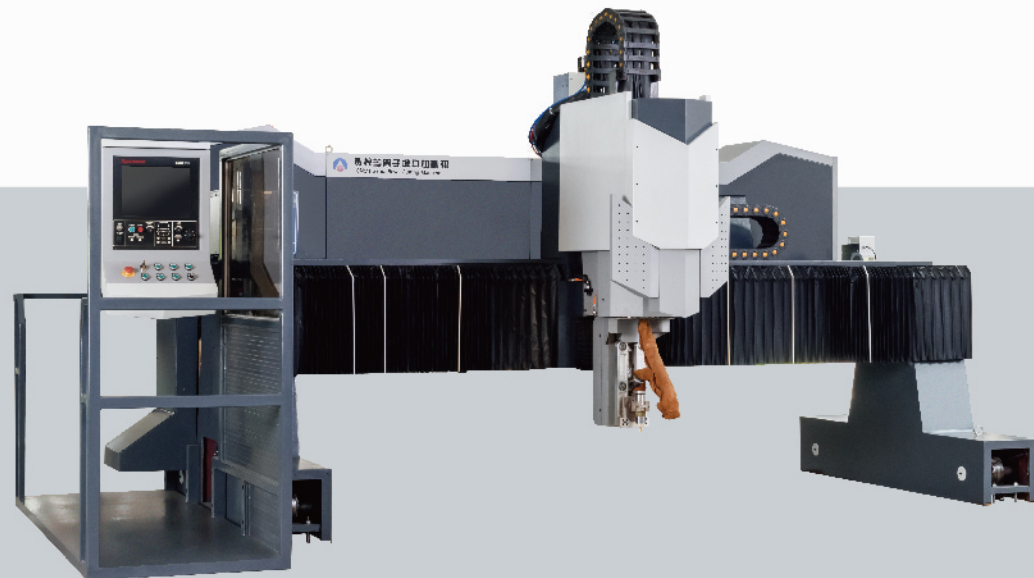
可配套多种等离子切割机，切割质量好，可切割碳钢、不锈钢等等有色金属。

It can be equipped with various plasma generators to achieve high quality cutting. It can cut carbon steel, stainless steel, non-ferrous metal.



割炬初始定位采用接触电阻式方法，防撞装置采用了滑动结构，可靠性高，稳定性好。

Cutting torch initial positioning adopts contact resistance method, the anticollision device adopts the sliding structure which is reliable and stable.



选型配置表-0504 | SELECTION CONFIGURATION TABLE -0504

		配置选择标示: √标准配置 □可选配置 ×无法选配 Configuration choice marked: √ Standard configuration □ Optional configuration × Not matching		
		数控等离子坡口切割机 CNC plasma bevel cutting machine	数控钻切复合机 CNC drilling and cutting machine	数控钻切坡口复合机 CNC drilling cutting and bevel combined machine
Machine tool standard specifications 机床主机标准规格	加工钢板尺寸范围 Plate dimension scope	按客户需求 According to customer need	√	√
	基础导轨 (纵向) Gantry guide rail (longitudinal)	精密铁轨 Fine grinding guide	√	×
		直线导轨 Linear guide	×	√
	龙门导轨 (横向) Gantry guide rail (transverse)	直线导轨 Linear guide	√	√
		精密铁轨 Fine grinding guide	×	×
	机床龙门结构形式 Machine gantry structure type	动梁式龙门 Moving-beam type gantry	√	□
		定梁式龙门 Fixed beam type gantry	×	□
	移动托架 Transverse moving station	垂直切割用托架 Vertical cutting moving station		√
		坡口切割用托架 Bevel cutting moving station	√	
		钻削用托架 Drilling moving station	×	√
切割割炬配置 Cutting torch configuration	等离子 Plasma	√	√	
	火焰 Flame	□	□	
钻削主轴配置 Drilling main spindle configuration	BT30/40/50		√	
	其他 Other		□	
Control device 控制装置	控制系统 CNC system	海宝Edge-Pro六轴 Hypertherm Edge-Pro 6-axis	√	□
		博大专用定制系统 BODA special customized system	×	√
	驱动伺服电机 Drive servo motor	三菱伺服 Mitsubishi Servo	√	√
		其他 Other	□	□
	中控模块 CCM BAT	三菱或其他 PLC Mitsubishi or other PLC	√	√
		触摸控制面板 Touch control panel	×	√
	钻削主轴配置 Drilling main spindle configuration	刀具长度自动补偿 Tool length automatic compensation		□
		自动换刀控制模块 Automatic tool change control module		□
切割割炬配置 Cutting torch configuration	独立式弧压调高 Independent arc voltage height controller	□	□	
	系统集成式弧压调高 CNC Integrated arc voltage height controller	√	□	
Cutting device 切割装置	等离子 Plasma	精细切割等离子(进口) Precision cutting plasma imported	√	√
		精细切割等离子(博大) BODA precision cutting plasma (BODA)	□	□
		通用型等离子 General type plasma	×	×
	火焰 Flame		□	□
割炬角度控制装置 Cutting torch angle control device	博大(专利)割炬坡口升降装置 BODA cutting torch lifting device(patent)	√	√	
	博大(专利)割炬坡口控制装置 BODA cutting torch control device (patent)	√	×	
Drilling device 钻削装置	钻削主轴规格 Drilling main spindle specification	精密主轴 BT30/40/50 Precision axis BT30/40/50		√
		专用钻孔主轴 Special drilling main spindle		√
	自动板材压紧 Automatic plate tighten	压脚式板材紧固装置 Pressing foot type plate fastening device		□
		液压式板材紧固装置 Hydraulic type plate fastening device		□
	自动刀库 Automatic plate tighten	直板式刀库 Straight type tool changer		□
圆盘式刀库 Disc type tool changer			□	
主轴转速控制装置 Spindle speed control device	交流伺服主轴 AC servo		□	
	变频器主轴 Transducer		□	
Annex 附件	烟尘净化装置 Fume purification device	√	√	
	润滑装置 Lubricating device	√	√	
	激光指示装置 Laser pointer device	√	√	
	运行三色指示灯 Running three-color indicator	√	√	
	座椅 Chair	√	√	
Precision quality 精度质量	切割形式质量 Cutting type and quality	精细切割 Precision cutting	√	√
		精细坡口切割 Precision bevel cutting	√	×
	钻削数据 Drilling data	钻削参数按需定制 Drilling parameter is customized		√
		整机运行检测标准 Test standard for whole machine running	厂标 Factory standard	√
其他 Other		□	□	

其他Other 可按客户需求提供博大系列其他规格产品，或者按需定制。We can provide BODA series products with other specifications according to customer needs or offer users to customize on demand.

备注：仅供参考，机床为非标设备，具体配置博大公司销售人员和技术人员会根据实际工艺情况来确定，并以最终与用户签订合同及技术协议为准，我们的最高宗旨是为客户提供一流的产品与服务。
Remark: for reference only, machine is non-standard equipment, BODA salesman and technicians will confirm the configuration in details to actual cutting process requirement of customers. The configuration will be confirmed by contract and technical agreement which signed by customer. Our highest aim is to offer the first-class products and services to customer.

BODA IV series

Cnc Flame Bevel Cutting Machine 数控火焰坡口切割机



适用各种直线或曲线组合形状工作的V型坡口切割。

CNC flame bevel cutting machine is suitable for V shape bevel cutting and straight line or curve combination shape.



切割旋转手动回转，90°四象限定位，使用便利。

Manually cutting bevel rotate, 90 four quadrants positioning, convenient for using.



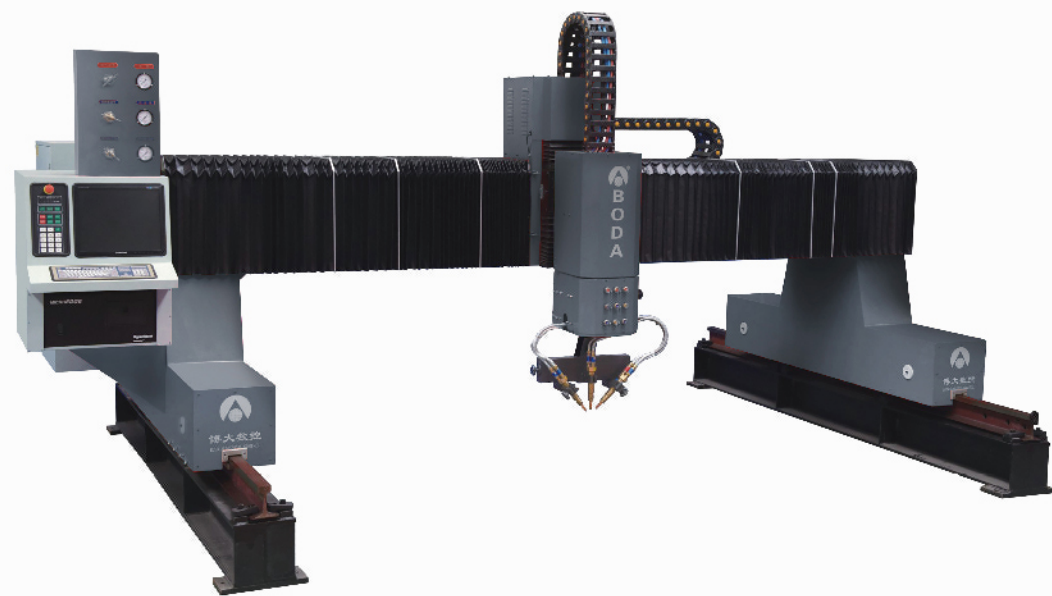
切割角度手动调节，范围0~45度，满足焊接坡口要求。坡口角度标尺指示。

Manual cutting angle range adjustment: 0-45, it can meet the bevel welding requirement. Ruler indicate the bevel angle.



传感高度控制装置定位，割嘴离钢板的距离始终保持一致，免除切割钢板在切割过程中的弯曲起伏，保证了切割质量。

Positioning by sensor height controller device, the distance between cutting tip and steel plate keeps same, which avoids the bending of plate during cutting process and stabilizes cutting quality.



BODA H series

CNC Flame Precision Rack Cutting Machine 数控火焰精密齿条切割机

产品概述 | DESCRIPTION

BODA龙门数控火焰精密齿条切割机，是专门为加工大型齿条的专业切割设备，它一次可精密切割多根高精度齿条，一次完成成品切割，无需再进行任何加工，替代进口产品，属国内首创。控制部分采用博大定制多轴数控系统，实现了多轴联动控制。

BODA Gantry style NC Flame Precision Rack Cutting Machine is the professional equipment for special large rack processing. It can cut several high precision racks and complete the finished product at one time. No need to make any more processing at all. It is initiate in China which instead of the imported product. Control system adopts the BODA customized multi-axis CNC system to realize the multi-axis linkage control.

